

KHOLIN, I.I.; BANIT, F.G.

Problems of dust elimination. TSement 27 no. 2:4-6 Mr-Ap '61.
(MIRA 14:5)
(Dust—Removal) (Cement plants)

24428

S/080/61/034/007/002/016
D223/D305

153200

AUTHORS: Kholin, I.I., Entin, Z.B., and Malinin, Yu.S.

TITLE: Reaction of clinker silicates with barium oxide

PERIODICAL: Zhurnal prikladnoy khimii, v. 34, no. 7, 1961,
1419- 1430

TEXT: The system, corresponding to the usual Portland-cement clinker but in which part of CaO is substituted with BaO , has for some time now been the object of attention of specialists in the field of building materials. Such a substitution could add to the cement properties such as an increase in resistance to attack of sea-water, and greater protective power against powerful x-ray radiation. The present work involves the study of interaction in solid form between C_3S and $\beta\text{-C}_2\text{S}$ with barium oxide, the composition of the product of heated mixtures of oxides and also the phase composition of the clinker containing BaO . The initial materials for preparing samples were previously synthesized C_3S and $\beta\text{-C}_2\text{S}$, and sta-

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bilized with 0.5 % B_2O_3 iron oxide, alumina and anhydrous SiO_2 . The alkaline earth oxide was added to the charge in the form of carbonates. All materials were sieved through a screen 0064 (about 10,000 holes/cm²), mixed according to the Bogue method, and then formed into cylindrical tablets weighing 1 g. The tablets were heated in a silica or platinum furnace on a platinum base hence preventing contamination. The base was heated to 1400 or 1470°C for 4 hours after which the samples were kept at constant temperature for 2 hours. After this they were left in air for rapid cooling or left in a silica furnace to cool. The analysis shows that different cooling procedure did not produce any difference between samples. The cooled samples were x-ray analyzed using powder method and machine YPC-57-M (URS-5P-I) and also surveyed by immersion. In addition, the content of free lime was determined by an alcohol-glycerol method. The results of investigation have shown that interaction of solid phases of β - C_2S and C_3S with BaO resulted in the decomposition of calcium silicates yielding free lime by substitution of BaO . Double calcium-barium orthosilicate is formed, capa-

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ble of containing in solid solution a small excess of CaO. The interaction of β -C₂S with BaO, with a sufficient quantity of barium oxide, resulted in the simultaneous formation of two phases, one of which was CaO.BaO.SiO₂. This compound appears as a definite chemical compound ($N_g = 1.767 \pm 0.006$; $N_g = 1.754 \pm 0.006$) capable of forming a continuous series of solid solutions with calcium orthosilicate. The increase in basicity of double silicate by heating with free lime was not achieved, and the possibility of increasing the basicity by increasing the BaO content above one mole was not investigated. The presence of barium ions (Ba⁺⁺) in the crystalline lattice of silicate was detected by P.F. Konovalov, A.N. Yefremov and B.V. Volkonskiy (Ref. 10: Ionizatsiyonnaya rentgenostrukturnaya ustanovka dlya issledovaniya kristallicheskikh veshchestv pri razlichnykh temperaturakh (Ionization, X-ray Structural Device for the Investigation of Crystalline Matter at Different Temperatures) L. 1958). In partial substitution of clinker lime with barium oxide the latter in the main enters into the composition of the silicate. When substituting 0.5 mole % lime on barium oxide the

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latter appears as an active mineralizer. At a BaO concentration of a few percent or more, the cementing in clinker does not form and the clinker contains a considerable amount of free lime. There are 7 figures, 3 tables and 10 references: 4 Soviet-bloc and 6 non-Soviet-bloc. The references to the English-language publications read as follows: R. Eskola, Am. j. Sci., 5, 4, 331, 1922; Bogue, The chemistry of portlandcement. II add., 1955.

SUBMITTED: October 10, 1960

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BUDNIKOV, P.P.; KHOLIN, I.I.; ENTIN, Z.B.

Measurement of cation transfer numbers in the liquid phase
of a portland cement clinker. Dokl. AN SSSR 142 no.6:1342-
1345 F '62. (MIRA 15:2)

1. Gosudarstvennyy vsesoyuznyy nauchno-issledovatel'skiy
institut tsementnoy promyshlennosti. 2. Chlen-korrespondent
AN SSSR (for Budnikov).
(Portland cement)
(Cations)

BUDNIKOV, P.P.; KHOLIN, I.I.; ENTIN, Z.B.

Diffusion coefficients of calcium in the liquid phase in the
calcination of Portland cement clinker. Dokl. AN SSSR 144
no.1:180-181 My '62. (MIRA 15:5)

1. Chlen-korrespondent AN SSSR (for Budnikov).
(Portland cement) (Calcium) (Diffusion)

KHOLIN, I.I.

Widening the assortment and raising the quality of cement. TSement
28 no.1:3-5 Ja-F '62. (MIRA 16:5)

(Cement)

KHOLIN, I.I., kand.tekhn.nauk; KOBRIN, M.G., inzh.

Improving the use of cement in construction. Prom. stroi. 40
no.3:42-44 '62. (MIRA 15:3)

1. Gosudarstvennyy vsesoyuznyy nauchno-issledovatel'skiy
institut tsementnoy promyshlennosti (for Kholin).
(Cement)

BUDNIKOW, P.P. [Budnikov, P.P.], prof.dr. (Moskva); CHOLIN, I.I. [Kholin, I.I.]; ENTIN, Z.B.

Measuring the numbers of cations transferred in the liquid phase of portland clinker. Cement wapno gips 17 no.5:123-125 My '62.

1. Członek rzeczywisty Polskiej Akademii Nauk, Warszawa.

BUDNIKOV, P.P., red.; BUTT, Yu.M., red.; KRAVCHENKO, I.V., red.;
ROYAK, S.M., red.; KHOLIN, I.I., red.; GLEZAROVA, I.L., red.
izd-va; GOL'BERG, T.M., tekhn. red.

[New developments in the chemistry and technology of cement] No-
voe v khimii i tekhnologii tsementa; trudy. Moskva, Gosstroi-
izdat, 1962. 295 p. (MIRA 16:1)

1. Soveshchaniye po khimii i tekhnologii tsementa, Moscow,
1961.

(Cement)

KHOLIN, I.I., kand.tekhn.nauk; KOBRIN, M.G., inzh.

Better organization of cement transportation. Zhel.dor.transp.
44 no.11:64-66 N '62. (MIRA 15:11)
(Cement--Transportation)

S/081/63/000/002/047/088
B156/B144

AUTHORS: Kholin, I. I., Malinin, Yu. S., Entin, Z. B.

TITLE: Effects of baking temperature on kinetics of clinker formation

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 2, 1963, 386, abstract 2M160 (Tr. Gos. Vses. n.-i. in-ta tsementn. prom-sti, no.15, 1961, 32-38)

TEXT: The effects of small temperature variations (10°C) in the range close to eutectic on the assimilation rate of lime in clinkers synthesized from chemically pure reagents and corresponding, by composition, to high-alite clinker (3 specimens) and standard Portland cement (3 specimens) have been studied. Two specimens contained no iron, and their compositions corresponded to those of white cements. The iron-free clinkers were investigated at every 10°C between 1390 and 1470°C (eutectic point was taken as 1455°C); the remainder were investigated at 1320 - 1420°C (eutectic at 1338°C). An abrupt decrease in the CaO_{free} content was found in the specimens containing Fe_2O_3 at temperatures above eutectic,

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this corresponding to the formation of C_3S by melting. In the case of the specimens not containing Fe_2O_3 , a marked acceleration of binding of the lime was observed after the eutectic point, but even at temperatures below this point the specimens contained a considerable amount of C_3S .

The reason why C_3S forms at these temperatures lies in the melting of the finest particles in the mixtures (the aluminates) at temperatures well below eutectic. The micromelts thus formed serve as contact media for heterophase reactions; this is confirmed by the considerable shrinkage of specimens at these temperatures. [Abstracter's note: Complete translation.] ✓

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S/891/62/000/000/002/006
A057/A126

AUTHORS: Nikulin, K.V., Kholin, I.I.

TITLE: Tendency of the technical development of the cement industry

SOURCE: Novoye v khimii i tekhnologii tsementa; trudy soveshcheniya po khimii i tekhnologii tsementa, 1961, god. Edited by P.P. Budnikov and others, Moscow, Gosstroyizdat, 1962, 12 - 21

TEXT: The future development of the Soviet cement industry in 1961 - 1965 is discussed, some particular data of plants and several important problems to be solved are mentioned. The Soviet cement industry grows faster than other branches of industry. The USSR will become the greatest cement producer in the world in the next 2 - 3 years and, therefore, it is necessary to build every year plants with 9 - 10 million tons of total cement output. The basic type of kiln foreseen in the technical development program (1961 - 1965) for the new plants is the rotating kilns (5 x 185 m) with 675,000 tons annual capacity or the smaller type (4.5 x 170 m) with 450,000 tons per annum. The main increase in cement production will be effected by the wet process. 62 rotating kilns

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working by the wet process will be erected in 1961 - 1965, 31 of which will be 5 x 185 m, while 17 furnaces with cyclon heat exchangers or calcination grates and a 850 ton/day capacity each will work by the dry method. With the increasing capacity rises also the problem of efficient cooling systems. Grate coolers, produced in the plant "Volgotsemtiyazhmash", are most convenient and gave positive results in the Kuybyshevskiy tsementnyy zavod (Kuybyshev Cement Plant). The desiccation of the cement slurry is an important problem investigated in the institute NIITsemmash. In order to improve the milling technique the production of modern tube-mills (3.2 x 15 m) was started in the plant "Sibirmash". An effective procedure is a two-stage milling in an open cycle, while a closed milling cycle has the advantage to produce cements with high specific surface (up to 4,500 - 5,000 cm²/g). Jet mills are highly effective since several technological operations may be carried out by them (grinding, drying, and calcination). Automation of the cement industry must be extended. Other very important problems are the development and production of special cements such as: a quick-hardening highly resistant portland cement with a strength after 24 h of at least 300 kg/cm² and after 28 days up to 800 - 1,000 kg/cm²; new types of cements for hydrotechnical installations with increased corrosion and frost resistance; new

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tamponage cements for the petroleum and gas industry; special cements for road building; cements for radiation protection at relatively low temperatures (100 - 400°C); non-shrinking and expanding cements with controllable expansion based on portland cement; and a larger nomenclature of high-quality white and colored cements. There is 1 table.

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ANASTASIADI, A.P.; BOROVSKIY, V.R.; VYBORNOV, G.V.; KOPELYANSKIY, G.D.; MAK, I.L.; PECHURO, S.S.; PIYEVSKIY, I.M.; RACHEVSKAYA, K.D.; REYZNER, Yu.B.; RYBAK, L.L.; TSEPELIOVICH, M.R.; SHUMAKHER, L.I.; YUSHKEVICH, M.O. [deceased]; AGEYENKO, Yu.G., nauchnyy red.; BELUGIN, A.T., nauchnyy red.; KOGAN, G.S., nauchnyy red.; KRZHEMINSKIY, S.A., nauchnyy red.; MITSKEVICH, M.I., nauchnyy red.; SILENOK, S.G., nauchnyy red.; TRILESNIK, Z.Ye., nauchnyy red.; ZUBAREV, K.A., glav. red.; TROPIMOV, I.P., red.; SKRAMTAYEV, B.G., glav. red.; BALAT'YEV, P.K., red.; KITAYEV, Ye.N., red.; KITAYGORODSKIY, I.I., red.; ROKHVARGER, Ye.L., red.; KHOLIN, I.I., red.; CHERKINSKAYA, R.L., red.; RODIONOVA, V.M., tekhn. red.

[Manual on the production of gypsum and gypsum products] Spravochnik po proizvodstvu gipsa i gipsovykh izdelii. [By] A.P. Anastasiadi i dr. Pod red. K.A.Zubareva. Moskva, Gosstroizdat, 1963. 464 p.

(MIRA 16:7)

(Gypsum) (Gypsum products)

KHOLIN, I.I., red.; TYUTYUNIK, M.S., red.izd-va; CHERKINSKAYA, R.L.,
red.izd-va; MOCHALINA, Z.S., tekhn. red.

[Handbook on cement production] Spravochnik po proizvod-
stvu tsementa. Pod red. I.I.Kholina. Moskva, Gosstroiz-
dat, 1963. 851 p. (MIRA 17:1)

KHOLIN, I.R.

YEFIMOV, V.I.; KHUDYAKOV, N.V.; SBITNEV, L.P.; ROMANOVSKIY, V.E.;
KHOLIN, I.R.; POPOV, V.I.; OSIPOV, G.P.; PISKAREV, V.S.;
AGAFONOV, Ye.F.; DORODNOV, P.G.; STRUKACHEV, V.I.; ZAYTSEV,
Yu.A.

A.A.Klimov's book "Electricity in animal husbandry." Reviewed
by V.I.Efimov and others. Elektrichestvo no.9:87-88 S '56.

(MLRA 9:11)

1. Kafedra primeneniya elektricheskoy energii v sel'skom kho-
zyaystve Stalingradskogo sel'skokhozyaystvennog instituta (for
Yefimov, Khudyakov, Sbitnev, Romanovskiy, Kholin). 2. Kafedra
primeneniya elektroenergii v sel'skom khozyaystve Saratovskogo
instituta mekhanizatsii sel'skogo khozyaystva imeni Kalinina
(for Popov, Osipov, Piskarev, Agafonov, Dorodnov, Strukachev,
Zaytsev). (Electricity in agriculture) (Stock and stockbreeding)

KHOLIN, I.T.
KHOLIN, I.T., inzh.

Damage to wires of 110 kv electric lines caused by vibration.
Elek.sta. 28 no.10:89 '57. (MIRA 10:11)
(Electric lines)

KHOLIN, I.T., inzh.

Increase of the operational reliability of pole-mounted disconnecting
switches. Elek. sta. 32 no.12:72-73 D '61. (MIRA 15:1)
(Electric lines--Poles) (Electric switchgear)

PLESKANOVSKIY, A.I.; KHOLIN, M.I., otv. red.; CHERNEGOVA, E.N., red.
izd-va; BOLDYREVA, Z.A., tekhn. red.; OVSEYENKO, V.G., tekhn.
red.

[Guide to the assembly and operation of ammonia refrigerating
equipment for rock freezing] Rukovodstvo po montazhu i eks-
pluatatsii oborudovaniia ammiachnykh kholodil'nykh ustanovok
dlia zamorazhivaniia gornykh porod. Moskva, Gosgortekhnizdat,
1962. 146 p. (MIRA 15:9)

1. Shakhtspetsstroy, trust.

(Refrigeration and refrigerating machinery)

(Soil freezing)

KHOLIN, N., prof.; SHENDRIKOV, T., inzh.

Water can be obtained from the air. Nauka i tekhn mladezh
15 no.10: 13-15 0'63.

KEOLTI, N.

Kapital'noe vosstanovlenie mostov. ☒ Large scale restoration of bridges 7. (Zhel-dor. transport, 1948, no. 4, p. 17-26, illus.)

DLCt: HE7.Z5

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

KHOLIN, N.A.

Construction in the transport industries in the sixth five-year plan.
Transp.stroi.6 no.3:4-6 Mr '56. (MIRA 9:7)

1.Zamestitel' Ministra transportnogo stroitel'stva.
(Transportation)

KHOLIN, Nikolay Aleksandrovich,; ISLANKINA, T.P., red.; TROFIMOV, A.V., tekhn. red.

[New methods of constructing railroads] Sovremennye metody stroitel'stva
zheleznnykh dorog v SSSR. Moskva, Izd-vo "Znanie," 1958. 31 p.
(Vsesoiuznoe obshchestvo po rasprostraneniю politicheskikh i
nauchnykh znaniy. Ser. 4, no. 23). (MIRA 11:11)
(Railroad engineering)

KHOLIN, N.A.

Precast concrete used in transportation construction. Transp.
stroil. 8 no.8:3-8 Ag '58. (MIRA 11:10)

(Precast concrete construction)
(Railroads--Construction)

DAVYDOV, S.S., otv.red.; OVSYANKIN, V.I., red.; KUZNETSOV, G.F., red.;
SKRAMTAYEV, B.G., red.; KARTAGHOV, K.N., red.; GRISHIN, M.M.,
red.; KHOLIE, N.A., red.; GALKIN, Ya.G., red.; GORYACHEVA,
T.V., red.isd-va; KULAGIN, A.Ya., red.isd-va; STEPANOVA,
R.S., tekhn.red.

[Precast and prestressed reinforced concrete; proceedings of
the 4th Session of the Academy of Construction and Architecture
of the U.S.S.R. on problems in precast and prestressed concrete
construction, June 11-14, 1958] Sbornyi i predvaritel'ne napria-
sheniye zhelezobeton; trudy IV sessii Akademii stroitel'stva
i arkhitektury SSSR po voprosam sbornogo i predvaritel'ne napria-
shennogo zhelezobetona, 11-14 iyunia 1958 g. Moskva, Gos.isd-vo
lit-ry po stroit., arkhit. i stroit.materialam, 1959. 1069 p.
(MIRA 12:6)

1. Akademiya stroitel'stva i arkhitektury SSSR. 2. Deystvitel'-
nyye chleny Akademii stroitel'stva i arkhitektury SSSR (for all
except Galkin, Goryacheva, Kulagin, Stepanova).
(Precast concrete construction) (Prestressed concrete construction)

OVSYANKIN, V.I., otv.red.; BELYAKOV, A.A., red.; BYLINKIN, N.P., red.;
VLASOV, A.V., red.; GALKIN, Ya.G., red.; LIFATOV, A.P., red.;
RUBANENKO, B.R., red.; SKRAMTAYEV, B.G., red.; CHERNOV, T.P.,
red.; KHOLOIN, M.A., red.; UDOD, V.Ya., red.izd-vs; GILENSON,
P.G., tekhn.red.

[Proceedings of the 5th session of the Academy of Construction
and Architecture on problems in introducing industrial building
methods, 17-19 December 1959] Trudy V sessii Akademii stroi-
tel'stva i arkhitektury SSSR po voprosam industrializatsii stroi-
tel'stva, 17-19 dekabria 1959 g. Moskva, Gos.izd-vo lit-ry po
stroit., arkhit. i stroit.materialam, 1960. 743 p.

(MIRA 13:12)

1. Akademiya stroitel'stva i arkhitektury SSSR. 2. Deystvi-
tel'nyye chleny Akademii stroitel'stva i arkhitektury SSSR (for
Ovseyankin, Belyakov, Vlasov, Lifatov, Rubanenko, Skramtayev,
Chernov, Kholin).

(Precast concrete construction)

ROSNOVSKIY, Vasilii Antonovich, prof.; KHOLIN, N.A., retsenzent;
POLIKARPOV, P.M., doktor tekhn. nauk, prof., red.;
USENKO, I.A., tekhn. red.

[Filled pipe columns in bridge building] Trubobeton v
mostostroenii. Moskva, Transzheldorizdat, 1963. 110 p.
(MIRA 16:7)

1. Daystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Kholin).

(Bridges, Concrete)

REBROV, A.S., inzh. [deceased]; USPENSKIY, V.P., inzh.; PLESHKOV, D.I., kand. tekhn. nauk; BELEN'KIY, V.I., inzh.; BERNADSKIY, G.I., inzh.; VALUTSKIY, I.I., inzh.; BAZANOV, A.F., kand. tekhn. nauk; KOGAN, I.Ya., kand. tekhn. nauk; RATNER, A.I.; VOROB'YEV, A.A., inzh.; BAUMAN, V.A., kand. tekhn. nauk; NOSENKO, N.Ye., kand. tekhn. nauk; FOKIN, M.V., inzh. [deceased]; VINOGRADOV, G.V., inzh.; GUSAKOV, M.A., inzh.; SUDAKOVICH, D.I., inzh.; Primalni uchastiye: SIGAL', Ya.Ye., inzh.; TITOV, M.A., inzh.; OGIEVICH, V.Ya., kand. tekhn. nauk; ZIMIN, P.A., kand. tekhn. nauk, retsenzent; LAPIR, F.A., inzh., retsenzent; PETROV, N.M., kand. tekhn. nauk, retsenzent; RYAKHIN, V.A., kand. tekhn. nauk, retsenzent; KHOLIN, N.A., inzh., retsenzent

[Construction machinery; a reference manual] Stroitel'nye mashiny; spravochnik. Izd.3., perer. i dop. Moskva, Mashinostroenie, 1965. 788 p. (MIRA 18:6)

KHOLIN N. D. PROF.

March 49

USSR/ Mining
Fuels, Solid
Peat

"A new Good Textbook on Hydropeat," Ye. V. Rakovskiy, Prof N. D. Kholin, 1 p

"Mekh Trud i Tyazh Rabot" No 3

Reviews Prof. M. A. Veller's excellent textbook, "Technology of Hydropeat," published in 1948. Although some aspects under "modern technology in the hydropeat industry" may never materialize, book should serve students well for many years.

PA 44/49T91

KHOLIN, E.D.; SHKUNDIN, B.M., nauchnyy redaktor; ZNAMENSKIY, A.A.,
redaktor; KRYNOCHKINA, K.V., tekhnicheskiy redaktor

[Hydromechanics in contemporary construction] Gidromekhanizatsiia
v sovremennom stroitel'stve. Moskva, Vsesoiuznoe uchebno-pedagog.
izd-vo, 1953. 44 p. (MLRA 7:10)
(Hydraulic engineering) (Earthwork)

KHOLIN, N.D.

SHKUNDIN, B.M., laureat Stalinskoy premii; KHOLIN, N.D., professor,
retsensent; VISHNYAN, G.B., inzhener, redaktor; TIKHONOV, A.Ya,
tekhnicheskij redaktor

[Hydraulic earthwork equipment] Oborudovanie dlia gidromekhanizatsii
zemlianykh rabot. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit.
i sudostroit. lit-ry, 1954. 126 p. (MLRA 7:10)
(Dredging machinery)

KHOLIN, N. D.

USSR/Miscellaneous - Construction

Card 1/1 #Pub. 70 - 1/9

Authors #Kholin, N. D. Prof.

Title # On the subject of increasing the effectiveness of excavation pumps

Periodical # Mekh. stroi. 3, 3-6, March 1954

Abstract # Discussion on the subject of increasing the efficiency of excavating pumps is presented. Ways of eliminating the frequent and sudden stoppages of excavating pumps, due to plugging of pipe lines, are discussed. Graph; drawing.

Institution :

Submitted :

KHOLIN, N.D. , professor.

Filling in a barrier across a river without creating
stagnant water. Mekh.trud.rab.8 no.1:36-37 Ja-P '54.

(MIRA 7:2)
(Dams)

KHOLIN, N.D., professor.; NIKOLAYEV, I.I., kandidat tekhnicheskikh nauk.;
KHARIN, A.I., inzhener.

"Hydromechanization of earth works" by A. M. TSarevskii. Gidr. i mel.
8 no.11:60-61 # '56. (MIRA 10:4)
(Hydraulic engineering) (Earthwork)

KHOLIN, N.D.

KHOLIN, N.D., professor.

Experimental hydromechanization unit at the chalk pit of the
Belgorod concrete plant. Mekh. trud. rab. 11 no. 4:34-36 Ap '57.
(MLRA 10:6)

1. Trast "Gidromekhanizatsiya" Ministerstva promyshlennosti
stroitel'nykh materialov SSSR.
(Belgorod--Chalk) (Hydraulic machinery)

AUTHORS: Kholin, N., Professor, Shendrikov, G., Engineer SCW/29-58-7-6/23

TITLE: Water May Be Obtained From the Air (Vodu mozno dobyvat' iz vozdukh)

PERIODICAL: Tekhnika molodezhi, 1958, Nr 7, pp. 6-7 (USSR)

ABSTRACT: Already for some considerable time endeavors have been made to work out a method of irrigation by means of which the water may be conveyed straight to the roots of the plants. The authors of this article once constructed a very simple and handy water-drill for the introduction of loamy solutions into the soil. It operates on the principle of underwashing the soil. During a long drought on the Crimea in 1957 an area of more than 15000 acres of vineyards was endangered. The agronomist D.Kovalenko suggested that each vine be allotted 3-4 l of water. The drill constructed by the authors was used for this purpose. As a result, the plants recovered and the crop was saved. Already in 1944 tests were carried out with this drill. Five liters of water were poured into the soil to a depth of 60 cm. After 12 hours sections were cut out along the axis of the drill hole. It was found on this occasion that the soil contained 4 times the amount of water

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introduced. After 48 hours the soil contained even more water. Similar phenomena were observed by scientists already at earlier periods. The prominent agronomist and meliorator A.N.Kostyakov recommended underground condensation irrigation. No exact explanation of all phenomena connected with the condensation of air-vapors in the soil has hitherto been found. The most important work was performed in this field by Professor V.V.Tugarinov, who proved it possible to convert atmospheric vapors into water. The application of hydromechanical methods makes it possible to put the ideas developed by Tugarinov into practice in a considerably more simple and easier manner. The soil itself is used as a condenser. In reality the introduction of water into the soil by means of a drill is necessary only for the purpose of providing channels making it possible for hot air to penetrate into the soil, thus causing a peculiar sort of underground rain. The water-drill is used not only for the purpose of irrigation but also for the purpose of supplying the plants with additional nourishment, a practice which was formerly considered to be of eminent importance by the famous selector I.V. Michurin. The drill mentioned may also be used with good success for the

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Water May Be Obtained From the Air

SOV/ 29-58-7-6/23

purpose of exterminating the phylloxera, a parasite which attacks the roots of vines. It has also been found useful when planting shoots. The drill is now being used also for other purposes as e.g. the draining of boggy land, the putting up supports for vines, and for the prevention of the filtration and oversalting of the soil. By means of this simple device it will be possible to realize an old dream: to convert the desert areas of Kara-Kum into flourishing gardens. There are 3 figures.

1. Irrigation systems--Design
2. Irrigation systems--Test results

Card 3/3

NUROK, Grigoriy Arkad'yevich, prof., doktor tekhn.nauk; Prinimali uchastiye:
FRAYNIS, V.V., kand.tekhn.nauk; MARKUS, M.N., gornyy inzh.. KHOLIN,
N.D., prof., retsentsent; OGURTSOV, A.I., dotsent, retsentsent;
IVANOV, A.Ye., otv.red.; ZHUKOV, V.V., red.izd-va; PROZOROVSKAYA,
V.L., tekhn.red.

[Introducing hydraulic mining machinery] Gidromekhanizatsiya
gornyykh rabot. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu
delu. 1959. 391 p. (MIRA 12:11)
(Hydraulic mining--Equipment and supplies)

KHOLIN, N.D., prof., red.; KOSYAKINA, Z.K., red. izd-va; MOCHALINA, Z.S.,
tekhn. red.

[Hydraulic engineering machinery at rock, gravel and sand
quarries for construction materials]Gidromekhanizatsiia na
kar'erakh nerudnykh stroitel'nykh materialov. Moskva, Gos-
stroizdat, 1962. 143 p.

(MIRA 16:1)

(Hydraulic mining)

(Aggregates (Building materials))

KHOLIN, N.

Develop the extraction of rock, gravel and sand using hydraulic engineering machinery. Na stroi. Ros. 3 no. 3:5-7 Mr '62. (MIRA 16:2)

1. Direktor Gosudarstvennogo proyektnogo instituta po kompleksnomu proyektirovaniyu gidromekhanizirovannykh predpriyatiy narudnykh stroitel'nykh materialov i okazaniyu tekhnicheskoy pomoshchi po ikh naladke i pusk.

(Sand and gravel plants) (Stone, Crushed) (Hydraulic mining)

KHOLIN, N.D., prof.; LINKOV, Ya.L., inzh.

Standard plans for gravel-grading plants for deposits which
must be worked by hydraulic engineering machinery. Stroi. mat.
8 no.8:18-20 Ag '62. (MIRA 15:9)
(Sand and gravel plants) (Dredging machinery)

KHOLIN, N. D.

For extensive introduction of hydraulic engineering machinery
into the industry of rock, gravel and sand for construction.
Bibl. tekhn. inform. Inst. "Proektgidromekh." no.1:1-4 '62.
(MIRA 16:1)

(Hydraulic mining)

NISNEVICH, Mark L'vovich; RAT'KOVSKIY, Leonid Petrovich; KLASSEN, V.I., prof., doktor tekhn. nauk, retsenzent; KHOLIN, N.D., prof., retsenzent; RODIN, R.A., kand. tekhn. nauk, retsenzent; BOGOSLOVSKIY, V.A., inzh., retsenzent; IVANOV, I.K., inzh., retsenzent; TROITSKIY, A.V., inzh., nauchnyy red.; MIKHAYLOV, B.V., kand. tekhn. nauk, nauchn. red.; GONZOVA, N.A., red.izd-va; SHERSTNEVA, N.V., tekhn. red.

[Dressing nonmetallic building materials] Obogashchenie nerudnykh stroitel'nykh materialov. Moskva, Gosstroizdat, 1963. 282 p. (MIRA 17:2)

KHOLIN, N.D., prof.; SHNEYDEROV, A.M., inzh.-ekonomist

Valuable undertaking of the Institute for the Designing of
Hydraulic Machinery. Stroi. mat. 10 no.3:12-14 Mr '64.

(MIRA 17:6)

1. Direktor Gosudarstvennogo proyektnogo instituta po
kompleksnomu proyektirovaniyu gidromekhanizirovannykh
predpriyatiy nerudnykh stroitel'nykh materialov i okazaniya
tekhnicheskoy pomoshchi po ikh naladke i pusk.

YUFIN, Andrey Pavlovich. Prinimali uchastiye: CHERNOSKUTOV, K.A.inzh.;
ZHIVOTOVSKIY, L.S., dots., kand. tekhn. nauk; VOLNIN, B.A.,
dots., kand. tekhn. nauk; DOLGACHEV, F.M., dots., kand.
tekhn. nauk; FILIMONOVA, I.V., kand. tekhn. nauk; MAL'TSEV,
M.V., kand. tekhn.nauk; TARASOV, V.K., kand. tekhn. nauk;
KHOLIN, N.D., prof., retsenzent; OGORODNIKOV, S.P., dots.,
kand. tekhn. nauk, retsenzent

[Hydromechanization] Gidromekhanizatsiia. Moskva, Stroiizdat,
1965. 496 p. (MIRA 18:8)

NUROK, Grigoriy Arkad'yevich, prof., dokt. r tekhn. nauk. Fein-
nizatsii uchastkiye: TRAYNIS, V.V., kand. tekhn. nauk; RUDENKO,
K.G., dots., kand. tekhn. nauk; TEODOROVICH, B.A., kand.
tekhn. nauk; MUCHNIK, V.S., prof., doktor tekhn. nauk,
retsensent; NOVOZHILOV, M.A., prof., doktor tekhn. nauk,
retsensent; IVANOV, A.Ye., otv. red.; NURMEHAMEDOVA, V.F.,
red.; KHOLIN, N.D., prof., red.

[Technology and planning of the hydraulic mechanization of
mining operations] Tekhnologiya i proektirovaniye gidromekha-
nizatsii gornyykh rabot. Moskva, Nedra, 1965. 578 p.

(MIRA 18:3)

KHOLIN, N.D., prof.

First results. Stroim. no.12:14-15 D '64.

(MIRA 18:1)

1. Direktor instituta Proyektgidromekhanizatsiya.

TUZHILKIN, N.D., otv.za vypusk. Prinimali uchastiye: KHOLIN, N.S.,
[deceased]; LEVCHENKO, I.I.; KUDRYAVTSEV, A.T.; TOKAREV, S.N.,
zasluzhennyy uchitel' shkoly RSFSR. SELEZNEV, N.G., red.;
PULIN, L.I., tekhn.red.

[Public education in Tula Province; collection of materials]
Narodnoe obrazovanie v Tul'skoi oblasti; sbornik materialov.
Tula, Tul'skoe knizhnoe izd-vo, 1959. 134 p. (MIRA 13:2)

1. Tula. Oblastnoy institut usovershenstvovaniya uchiteley.
2. Direktor Tul'skogo oblastnogo instituta usovershenstvovaniya uchiteley (for Tuzhilkin).
3. Byvshiy zaveduyushchiy Tul'skim oblonom(for Kholin).
4. Direktor Yasnopolyanskoy shkoly im. L.N. Tolstogo (for Levchenko).
5. Direktor 26-y shkoly g.Tuly (for Kudryavtsev).
6. Zaveduyushchiy uchebnoy chast'yu 1-y shkoly g.Tuly (for Tokarev).

(Tula Province--Education)

KHOLIN, S.A.

Optical theorem and the energy spectrum. Atom. energ. 15 no.2:
156 Ag '63. (MIRA 16:8)
(Collisions (Nuclear physics))

ACCESSION NR: AT4019697

S/2555/63/009/000/0254/0262

AUTHOR: Dmitriyev, N. A.; Kholin, S. A.

TITLE: Peculiarities of static solutions of gravity equations

SOURCE: AN SSSR. Astronomicheskii soviet, Voprosy kosmogonii (Problems of cosmogony), v. 9, 1963, 254-262

TOPIC TAGS: astrophysics, gravity equation, gravity, general relativity theory, star, star density, star mass, Fermi gas

ABSTRACT: Static, spherically symmetrical solutions of the gravity equations in the general theory of relativity are investigated. The study was made for those equations of state in which, for large densities of particles (baryons) n , the energy density ϵ behaves asymptotically as $\epsilon \sim n^\alpha$ ($\alpha > 1$). It is found that the total mass of a star reveals a periodically attenuating dependence on density at the center, which asymptotically approaches a value corresponding to infinite density at the center. The asymptotic equation of state $\epsilon \sim n^\alpha$ can be true only in a certain vicinity of the center of the star. Fig. 1 and Table 1 of the Enclosure show the total mass, proportional to u , total number of baryons, proportional to N_2 , and the radius of a neutron star for the equation of state of a degenerate

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ACCESSION NR: AT4019697

Fermi gas when $T = 0$, as functions of density at the center. Orig. art. has: 21 formulas, 3 figures and 1 table.

ASSOCIATION: Astronomicheskiy sovet AN SSSR (Astronomical Council, AN SSSR)

SUBMITTED: 31Oct62

DATE ACQ: 12Mar64

ENCL: 03

SUB CODE: AA

NO REF SOV: 005

OTHER: 003

Card 2/5

ACCESSION NR: AT4019697

ENCLOSURE: 01

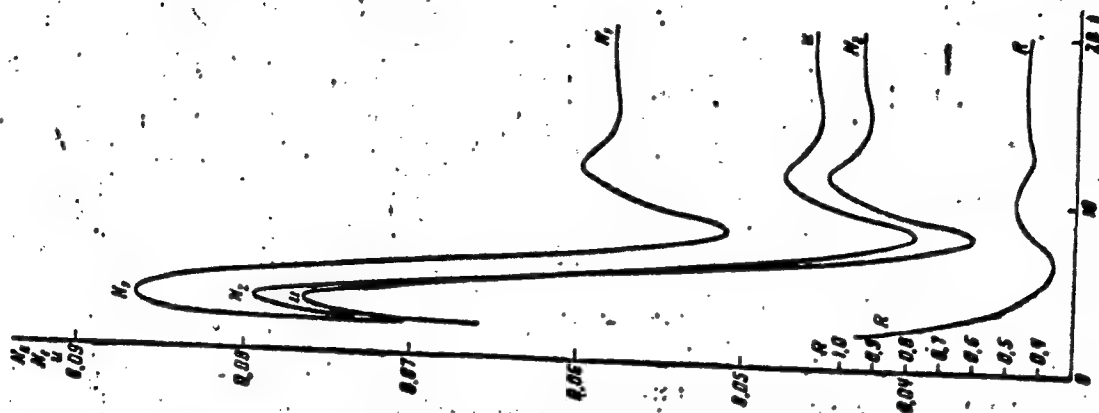


Fig. 1. Relationship between N_1 , N_2 , u , R and the density at the center.

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ACCESSION NR: AT4019697

ENCLOSURE: 02

Table 1. Integral Characteristics of a Star as a Function of Density at the Center (all computations on the basis of the system of units used by Oppenheimer and Volkoff, Phys. Rev., 55, 374, 1939)

i	R	u	N_1	N_2	i	R	u	N_1	N_2
2	0,95903	0,065893	0,070399	0,067693	14	0,44521	0,045715	0,058009	0,042820
3	0,67722	0,076848	0,086645	0,079491	15	0,44872	0,045460	0,057668	0,042532
4	0,50923	0,071079	0,084591	0,072005	16	0,45220	0,045576	0,057756	0,042666
5	0,41124	0,059890	0,074200	0,050722	19	0,45241	0,045089	0,058244	0,043129
6	0,36546	0,049261	0,062713	0,047169	20	0,45178	0,045051	0,058213	0,043082
7	0,36801	0,042017	0,054154	0,038793	25	0,45203	0,045885	0,058129	0,043012
8	0,41493	0,039703	0,050928	0,036188	30	0,45100	0,045884	0,058129	0,043014
9	0,46761	0,042205	0,053348	0,038956	35	0,45158	0,045841	0,058082	0,042985
10	0,48202	0,045852	0,057504	0,042990	40	0,45174	0,045941	0,058197	0,043077
11,5	0,46163	0,047613	0,059939	0,044956	45	0,45181	0,045850	0,058090	0,042976
13	0,44595	0,048456	0,058856	0,043455	50	0,45137	0,045871	0,058120	0,042968

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ACCESSION NR: AT4019697

ENCLOSURE: 03

* t_0 is the function of density at the center; R is the total radius of the star; $M = \int_0^R 4\pi r^2 \rho dr$ is the observed mass of the star; $N_1 = \int_0^R \frac{4\pi r^2}{\sqrt{1 - \frac{2u}{r}}} dr$ is the mass determined through the total energy ($N_1 = \frac{E}{c^2}$); $N_2 = \frac{4}{\pi} (1.345) \int_0^R \frac{4\pi r^2}{\sqrt{1 - \frac{2u}{r}}} dr$ is the rest mass (number of neutrons multiplied by the mass of one neutron). The energy of formation of a star from neutrons spaced at infinity is equal to $(N_2 - u)$.

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L 26916-65 EWT(m)/EPA(w)-2/EWA(m)-2 Pab-10/Pw-10 LJP(c) DM

ACCESSION NR: AP5004006

S/0089/65/018/001/0062/0063

AUTHORS: Morozov, V. G.; Kholin, S. A.

TITLE: Simplest nonstationary kinetic equation

SOURCE: Atomnaya energiya, v. 18, no. 1, 1965, 62-63

TOPIC TAGS: kinetic equation, particle acceleration, Laplace transformation

ABSTRACT: A solution, integrated over the angle, is obtained for the one-velocity kinetic equation in an infinite homogeneous medium with plane or point-like isotropic source. The scattering is assumed isotropic in the laboratory system. The solution was obtained by two methods: the double Laplace transformation method and the corrected method of A. S. Monin (Teoriya veroyatnosti i yeye primeneniye [Probability Theory and Its Application], v. 1, 328, 1956). The particle distribution density is expanded in powers of the reciprocal

Card

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L 26916-65

ACCESSION NR: AP5004006

of the scattering range, which is equivalent to expansion over the collision. It is pointed out that an error in Monin's solution prevented him from obtaining the correct answer. Orig. art. has: 2 figures and 4 formulas.

ASSOCIATION: None

SUBMITTED: 31Jan64

ENCL: 00

SUB CODE: NP, MA

NR REF SOV: 000

OTHER: 000

Cord

2/2

L 16109-66 ENT(1)

ACC NR: AP6002370

SOURCE CODE: UR/0207/65/000/006/0133/0134

AUTHOR: Kholin, S. A. (Moscow)

ORG: None

TITLE: The study of compressible gas motion stability

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 6, 1965, 133-134

TOPIC TAGS: gas flow, gravitation field, Navier Stokes equation, compressible gas, motion stability, gas viscosity

ABSTRACT: Various authors have investigated the stability of motion of constant density gases within their natural gravitation field. Using analogous methods a study can be made of the behavior of a spherically symmetric mass of compressible gas with spacially constant density without the presence of gravitation. The present note discusses the qualitative reasons for the appearance of instabilities which turn out to be essentially kinematic. Compression appears to be unstable, while expansion becomes at $t \rightarrow \infty$ washed out over the finite mass. The analysis is put on more rigorous foundations starting from the Navier-Stokes equations. In all cases, following an expansion during prolonged time intervals, the viscosity begins to play an important role and causes damping. Orig. art. has: 18 formulas and 1 figure.

Card 1/2

L 16109-66

ACC NR: AP6002370

SUB CODE: 20 / SUBM DATE: 09Jan65 / ORIG REF: 002 / OTH REF: 001

net
Card 2/2

KHOLIN, S.R.

Krasnaya Presnya. Gor.khoz. Mosk. 34 no.12:16-19 D '60.
(MIRA 13:12)

1. Pervyy zamestitel' predsedatelya Ispolkoma Krasnopresnenskogo
raysoveta.
(Moscow--City planning)

KHOLIN, S.S.; BEDULEVICH, T.S.

Hygienic evaluation of therapeutic and prophylactic feeding
according to ration No. 4 among plant workers. Trudy 1-go
MMI 5:167-177 '59. (MIRA 13:8)

1. Iz kafedry gigiyeny pitaniya (zav. - prof. A.A. Khrustalev)
1-go Moskovskogo ordepa Lenina meditsinskogo instituta im.
I.M. Sechenova.

(LABOR AND LABORING CLASSES—DISEASES AND HYGIENE)
(NUTRITION)

KHOLIN, T.K.

Automatic production line for grinding piston pins. Mashinostroitel'
no.3:8-9 Mr '57. (MIRA 10:5)

1. Moskovskiy avtozavod imeni Likhacheva.
(Pistons) (Grinding and polishing)

DANILEVSKIY, Vladimir Viktorovich, dots.; Primal uchastiye POLUBINSKIY, V.I., yurist; SAMOKHOTSKIY, A.I., retsenzent; KHOLIN, V.A., retsenzent; STANKEVICH, V.G., inzh., retsenzent; SMIRNOV, B.V., nauchnyy red.; SAMSONOVA, M.T., red.izd-va; YEZHOVA, L.L., tekhn. red.

[Manual for technicians in machinery manufacture] Spravochnik tekhnika-mashinostroitelia. Moskva, "Vysshaya shkola," 1962. 644 p.
(MIRA 15:6)

1. Chleny predmetnoy komissii Moskovskogo mashinostroitel'nogo tekhnika im. Dzerzhinskogo (for Samokhotskiy, Kholin, Stankevich).
(Mechanical engineering)

DANILEVSKIY, Vladimir Viktorovich; GAVRILOV, A.N., prof., doktor
tekhn. nauk, retsenzent; KHOLIN, V.A., inzh., retsenzent;
KUNIN, P.A., red.; VARGANOVA, A.N., red.izd-va; MURASHOVA,
V.A., tekhn. red.

[Technology of the manufacture of machinery; general course]
Tekhnologiya mashinostroeniya; obshchii kurs. Moskva,
Vysshaya shkola, 1963. 505 p. (MIRA 17:2)

GARKALENKO, I.A.; KHOLIN, V.N.

Efficient combination of geophysical studies of boreholes in
the Belozerska deposit and the Krivoy Rog Basin. Razved.i prom.
geofiz no.45:101-104 '62. (MIRA 15:11)
(Belozerska region--Logging (Geology))
(Krivoy Rog Basin--Logging (Geology))

BLYUMENTSEV, A.M.; KHARITONOV, S.Ye.; KHOLIN, V.N.; MIGUNOV, B.B.

Quantitative evaluation of iron rocks and ore in the Krivoy Rog
Basin based on the radiometric data of holes. Geofiz. sbor.
no.9:97-100 '64. (MIRA 18:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut yadernoy
geologii i geofiziki i Dnepropetrovskaya geofizicheskaya
ekspeditsiya tresta "Ukrgeofizrazvedka".

KHOLIN, V.N.; SHECHITOV, N.A.; GARKALENKO, I.A.

Physical properties of rocks and ores in the Krivoy Rog Basin
and Belozerska iron ore region. Geofiz. sbor. no.9:101-106
'64. (MIRA 18:6)

1. Dnepropetrovskaya geofizicheskaya ekspeditsiya tresta
"Ukrgeofizrazvedka".

KHOLIN, V.V., kandidat meditsinskikh nauk.

Clinical aspects of malignant ovarian tumors, Akush.i gin. no.2:47-50
Mr-Ap '54. (MLRA 7:6)

1. Iz Tsentral'nogo rentgeno-radiologicheskogo instituta (direktor -
professor M.N.Pobedinskiy) Ministerstva zdavookhraneniya SSSR,
(Ovaries--Cancer)

KHOLIN, V.V., kandidat meditsinskikh nauk

Birth of a normal infant following right ovariectomy in cancer and subsequent roentgenotherapy. Akush. i gin. no.3:84-85 My-Je '54.

(MLRA 7:8)

1. Iz TSentral'nogo nauchno-issledovatel'skogo rentgeno-radiologicheskogo instituta (dir. prof. M.W.Pobedinskiy) Ministerstva zdoravookhraneniya SSSR.

(OVARIES, neoplasms,

*in pregn., birth of normal inf. after ovariectomy & x-ray ther.)

(PREGNANCY, complications,

*ovarian tumor, birth of normal inf. after ovariectomy & x-ray ther.)

(ROENTGENOTHERAPY, in various diseases,

*ovarian cancer, birth of normal inf. after ovariectomy & x-ray ther.)

KHOLIN, V.V., kandidat meditsinskikh nauk

Radiologic and combined therapy of malignant neoplasms of the ovaries. Vest. rent. i rad. no.6:57-61 N-D '54. (MLRA 8:1)

1. Iz Tsentral'nogo nauchno-issledovatel'skogo rentgeno-radiologicheskogo instituta (dir. prof. M.N.Pobedinskiy) Ministerstva zdavookhraneniya SSSR.

(OVARIES, neoplasms,
ther., x-ray, alone & with other methods)
(RADIOTHERAPY, in various diseases,
cancer of ovaries, alone & with other methods)

KHOLIN, V. V.

6984. Effect of ionizing radiation on course of pregnancy and
foetus. V. V. Holin *Klin. Med.*, 1955, 33, No. 6, 24-27, *Referat*.
Zh. Biol., 1956, Abstr. No. 78953. — A short survey is given of work
on the effect of external (X-rays) and internal (^{90}Sr , ^{131}I and ^{224}Ra)
irradiators, on the course of pregnancy and development of the
foetus. It appears that the penetrating rays badly effect the
course of pregnancy and the foetus, and that the limiting values
are not well known. Unknown also are first aid measures for
sufferers and their treatment (RUBIN) K. IUSCZYNSKI

KHOLIN, V.V.

Clinical aspects and roentgen therapy of papillary cystoma
serosum of the ovaries. Sov.med. 19 no.9:24-29 S '55(MIRA 8:12)

1. Iz Tsentral'nogo nauchno-issledovatel'skogo rentgeno-radio-
logicheskogo instituta (dir.-prof. M.N.Pobedinskiy) Ministerstva
zdravookhraneniya SSSR.

(OVARIES, neoplasms,
diag. & radiother.)

(RADIOTHERAPY, in various diseases
cystoma, serous of ovaries)

KHOLIN, V.V.

Characteristics of the reaction of the growing organism to massive doses of ionizing radiations. Med.rad. 1 no.2:75-80 Mr-Apr '56.

(MIRA 9:9)

1. Iz kafedry meditsinskoy radiologii (zav. - prof. M.N.Pobedinskiy)
ordena Lenina Instituta usovershenstvovaniya vrachey imeni S.M.
Kirova (dir. - prof. N.I.Blinov)

(GROWTH, effect of radiations,
ionizing review (Rus))

(RADIATIONS, effects,
ionizing, on growth, review (Rus))

KHOLIN, V.V.

Some peculiarities in the reaction of rats to X-irradiation as related to age and dosage. Med.rad. 1 no.4:22-25 J1-Ag '56. (MIRA 9:12)

1. Iz kafedry meditsinskoy radiologii (zav. - prof. P.M.Pobedinskiy)
Gos. ordena Lenina instituta usovershenstvovaniya vrachey im. S.M.
Kirova (dir. - prof. N.I.Blinov)

(ROENTGEN RAYS, eff.

on young & adult rats, correlation of age & dosage)

(GROWTH, eff. of radiations on

x-rays, eff. on rats, correlation of age & dosage)

KHOLIN, V.V., kandidat meditsinskikh nauk (Leningrad)

Effect of penetrating rays on the female genital organs. Fel'd.

1 akush. 22 no.2:16-18 F '57

(MLRA 10:5)

(GENERATIVE ORGANS, FEMALE--DISEASES)

(RADIATION--PHYSIOLOGICAL EFFECT)

SHCHERBINA, M.G.: KHOLIN, V.V.

Peculiarities in the restoration of ovarian function after
curietherapy for cervical cancer. Akush. i gin. 33 no.1:95-96
Ja-F '57 (MLRA 10:4)

1. Iz Tsentral'nogo nauchno-issledovatel'nogo rentgeno-
radiologicheskogo instituta (dir.-prof. M.N. Pobedinskiy)
(CERVIX NEOPLASMS, ther.
radium, post-ther. restoration of ovarian funct.) (Rus)
(RADIUM, ther. use
cancer of cervix, post-ther. restoration of ovarian
funct.) (Rus)
(OVARIES, physiol.
restoration of funct. after curiether. of cancer
of cervix) (Rus)

KHOLIN, V.V.

Sensitivity of newborn rats to various doses of ionizing radiations
[with summary in English]. Med.rad. 3 no.2:49-53 Mr-Apr'58 (MIRA 11:5)

1. Iz kafedry meditsinskoy radiologii (sav. - prof. M.M. Pobedinskiy)
Leningradskogo gosudarstvennogo ordena Lenina instituta usovershen-
stvovaniya vrachey imeni S.M. Kirova.

(RADIATIONS, eff.

sensitivity of newborn rats to various doses of
ionizing radiations (Rus))

KHOLIN, V.V., dots.

Some data on clinical aspects and radiation therapy in malignant tumors of the ovaries in children and women up to 25 years of age.
Ped., akush. i gin. 20 no.4:63 '58. (MIRA 13:1)

1. Kafedra meditsinskoy radiologii (zav. - prof. M.N. Pobedinskiy)
Leningradskogo gosudarstvennogo instituta usovershenstvovaniya vrachey
(direkto - prof. N.I. Blinov).
(OVARIES--CANCER) (X RAYS--THERAPEUTIC USE)

KHOLIN, V.V. (Leningrad)

Nature of the course of acute radiation sickness in rats during the
period of transition to independent feeding. Med. rad. 4 no.5:85-87
My '59. (MIRA 12:7)

(ROENTGEN RAYS, off.

exper. radiation sickness, course in period of transition
to independent feeding in rats (Rus))

KHOLIN, V. V.

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PHASE I BOOK EXPLOITATION

80V/5435

Kiselev, P. N., Professor, G. A. Gusterin, and A. I. Strashinin, Eds.

Voprosy radiobiologii. t. III: Sbornik trudov, posvyashchenny 60-letiyu so dnya rozhdeniya Professora M. N. Pobedinskogo (Problems in Radiation Biology. V. 3: A Collection of Works Dedicated to the Sixtieth Birthday of Professor Mikhail N[ikolayevich] Pobedinskiy [Doctor of Medicine]) Leningrad. Tsentr. n-issl. in-t med. radiologii M-va zdavookhrananiya SSSR, 1960. 422 p. 1,500 copies printed.

Tech. Ed.: P. S. Peleshuk.

PURPOSE: This collection of articles is intended for radiobiologists.

COVERAGE: The book contains 49 articles dealing with pathogenesis, prophylaxis, and therapy of radiation diseases. Individual articles describe investigations of the biological effects of radiation carried out by workers of the Central Scientific Research Institute for Medical Radiology of the Ministry of Public Health, USSR. [Tsentral'nyy nauchno-issledovatel'skiy institut meditsinskoy radiologii Ministerstva zdavookhraneniya SSSR] during 1958-59. The following

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≠ 69

Problems in Radiation Biology (Cont.)

SOV/5435

topics are covered: various aspects of primary effects of radiation; the course of some metabolic processes in animals subjected to ionizing radiation; reactions in irradiated organisms; morphologic changes in radiation disease; and reparation and regeneration of tissues injured by irradiation. Some articles give attention to the effectiveness of experimental medical treatments. No personalities are mentioned. References accompany almost all of the articles.

TABLE OF CONTENTS:

Foreword

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N. I. Arlanchenko, and V. N. Mastryukova. On the Mechanism of Trophic
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Zedgenidze, G. A., [Member, Academy of Medical Sciences USSR], Ye. A.
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Adrenal Cortex in Acute Radiation Sickness and the Effect of Desoxy-
corticosterone Acetate on the Disease

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Card 7/10

KHOLIN, V.V.

Influence of the incorrect use of ionizing radiation on the human body. Vop.okh.mat.i det. 5 no.4:77-81 JI-Ag '60.

(MIRA 13:7)

1. Iz kafedry meditsinskoy radiologii (zav. - prof. M.N. Pobedinskiy) Leningradskogo ordena Lenina instituta usovershenstvovaniya vrachey imeni S.M. Kirova (dir. - prof. N.I. Blinov)
(RADIATION--PHYSIOLOGICAL EFFECT)

KHOLIN, V.V.

Features of thymus gland disorders due to the action of ionizing
radiations. Med. rad. 5 no.8:29-33 '60. (MIRA 13:12)
(RADIATION—PHYSIOLOGICAL EFFECT)
(THYMUS GLAND)

KHOLIN, V.V.

Comparative characteristics of massive-dose roentgen injuries in sexually immature and mature rats. Biul. biol i med. 50 no.12:81-86 D '60. (MIRA 14:1)

1. Iz kafedry meditsinskoy radiologii (zav. - prof. M.N.Pobedinskiy) Gosudarstvennogo Leningradskogo ordena Lenina instituta usovershenstvovaniya vrachey imeni S.M. Kirova (dir. - dotsent A.Ye. Kiselev); Predstavlena deystvitel'nym chlenom AMN SSSR S.N.Davidenkovym.
(RADIATION SICKNESS)

KHOLIN, V.V.

Experimental data on the establishment of the half-lethal dose (LD₅₀) for animals irradiated during various periods of their postnatal development. Radiobiologiya 1 no.5:750-751 '61.

(MIRA 14:11)

1. Institut usovershenstvovaniya vrachey imeni S.M.Kirova, Leningrad.
(RADIATION—DOSAGE)

KHOLIN, V.V.

Characteristics of the course of acute radiation sickness in
young rats. Med.rad. 6 no.3:21-26 '61. (MIRA 14:5)
(RADIATION SICKNESS)

27.1220

39921

S/219/62/053/006/002/003

1015/1215

AUTHOR: Kholin, V. V.

TITLE: The average life span of rats irradiated at various periods of postnatal development

PERIODICAL: Byulleten' eksperimental'noy biologii i meditsiny, v. 53, no. 6, 1962, 28-31

TEXT: The accepted view that young and growing animals are more radiosensitive than sexually mature animals is questioned. The experiments, carried out on 2304 rats aged from 1-3 days to 3-4 months, and irradiated with 500-50000r (without any filter, at a dose rate of 230-430 r/min) show that the life span of irradiated rats depends on both the dose and the age of the irradiated animal. By plotting the life span against the irradiation dose, and by comparing the curves obtained for various ages, one can predict the average life span for each lethal and sublethal dose, thus providing a better method for the study of age/radiosensitivity dependence. There are 1 figure and 3 tables.

ASSOCIATION: Kafedra meditsinskoy radiologii (zav.-prof. M. N. Pobedinskiy) Leningradskogo ordena Lenina instituta usovershenstvovaniya vrachey imeni S. M. Kirova (dir. -dotsent A. Ye. Kiselev). (Chair of Medical Radiology (Dir. Prof. M. N. Pobedinskiy) The Lenin Order Institute of Postgraduate Training for Physicians imeni S. M. Kirov (Dir. Docent A. Ye. Kiselev) Leningrad

SUBMITTED: May 6, 1961

Card 1/1

KHOLIN, V.V., dotsent (Leningrad)

Some comments on the training of radiologists; from the experience of the Department of Medical Radiology of the S.M.Kirov Leningrad Institute for Postgraduate Medical Education. Vest. rent. i rad. 37 no.2:80-81
Mr-Apr '62. (MIRA 15:4)

(RADIOLOGY, MEDICAL--STUDY AND TEACHING)

43489

S/205/62/002/006/021/021

E073/E435

271220

AUTHORS: Kholin, V.V., Luk'yanov, V.P., Barkova, A.M.

TITLE: Determination of the integral absorbed X-ray dose in animals

PERIODICAL: Radiobiologiya, v.2, no.6, 1962, 947-949

TEXT: The authors propose a new and more accurate method for the determination of the integral absorbed dose, applicable to various conditions of irradiation of test animals. According to S.N.Ardashnikov and N.S.Chetverikov, the integral absorbed dose can be calculated by means of the following expression:

$$\Pi_{\text{integr}} = \frac{\psi D A \rho}{\gamma} (1 - e^{-\gamma d}) \text{ g. rad}$$

where ψ - scaling coefficient (= absorbed dose in rad/irradiation dose in r), D - exposure dose at surface level, d - density of irradiated tissue, γ - electronic transformation coefficient, d - thickness of tissue. Two numerical examples are given. It is emphasized that the results are approximate because of the complicated geometry and irregular structure of Card 1/2

Determination of the integral ...

S/205/62/002/006/021/021
E073/E435

the bodies of the test animals.

ASSOCIATION: Institut usovershenstvovaniya vrachey, Leningrad
(Postgraduate School for Doctors, Leningrad)

SUBMITTED: March 5, 1962

X

Card 2/2

KHOLIN, V.V.

Average lifespan of rats irradiated at various stages of postnatal development. Biul.eksp.biol.i med. 53 28-31 Je '62.

(MIRA 15:10)

1. Iz kafedry meditsinskoy radiologii (zav. - prof. M.N. Pobedinskiy) Leningradskogo ordena Lenina instituta usovershenstvovaniya vrachey imeni S.M.Kirova (dir. - dotsent A.Ye.Kiselev). Predstavlena deystvitel'nym chlenom AMN SSSR S.N.Davidenkovym.
(X RAYS--PHYSIOLOGICAL EFFECT)

KHOLIN, V.V.; LUK'YANOV, V.P.

Tables for the computation of the radiation absorption dose in
rads in curietherapy of cancer of the cervix uteri. Med.rad.
no.1:32-34 '62. (MIRA 15:1)

1. Iz kafedry meditsinskoy radiologii Leningradskogo ordena Lenina
instituta usovershenstvovaniya vrachey imeni S.M. Kirova.
(UTERUS—CANCER) (RADIUM—THERAPEUTIC USE)
(RADIATION—DOSAGE)

KHOLIN, V. V.

Some characteristics of radiation injury to cellular elements
of the spleen in rats of various ages. Probl. gemat. i perel.
krovi no.1:16-17 '62. (MIRA 15:7)

1. Iz kafedry meditsinskoy radiologii (zav. - prof. M. N.
Pobedinskiy) Leningradskogo ordena Lenina instituta usovershenst-
vovaniya vrachey imeni S. M. Kirova (dir. - dotsent A. Ye.
Kiselev)

(RADIATION SICKNESS) (SPLEEN) (AGING)

KHOLIN, V.V.; LUK'YANOV, V.P.; BARKOVA, A.M.

Determination of the integral absorbed dose in animals irradiated with X-rays. Radiobiologiya 2 no.6:947-949 '62
(MIRA 16:11)

1. Institut usovershenstvovaniya vrachey, Leningrad.

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AUTHOR: Kholin, V. V.

TITLE: Experimental data on the effect which ionizing radiation has on the bones of growing animals

SOURCE: Meditsinskaya radiologiya, v. 10, no. 4, 1965, 75-79

TOPIC TAGS: ionizing radiation, bone, radioisotope, radiosensitivity, radiation sickness, radiation pathology

ABSTRACT: This survey of Soviet and foreign literature shows that research during the past 10 years has not substantially modified the traditional view dating back to Fosterling (1906) that bone is less vulnerable to ionizing radiation than other tissues of the mature organism. However, the situation is quite different in growing animals which have been found to be highly sensitive to radiation. The degree of sensitivity varies chiefly with the age of the animal and the radiation dose. The effects of local irradiation differ from those of whole-body irradiation.

Card 1/2